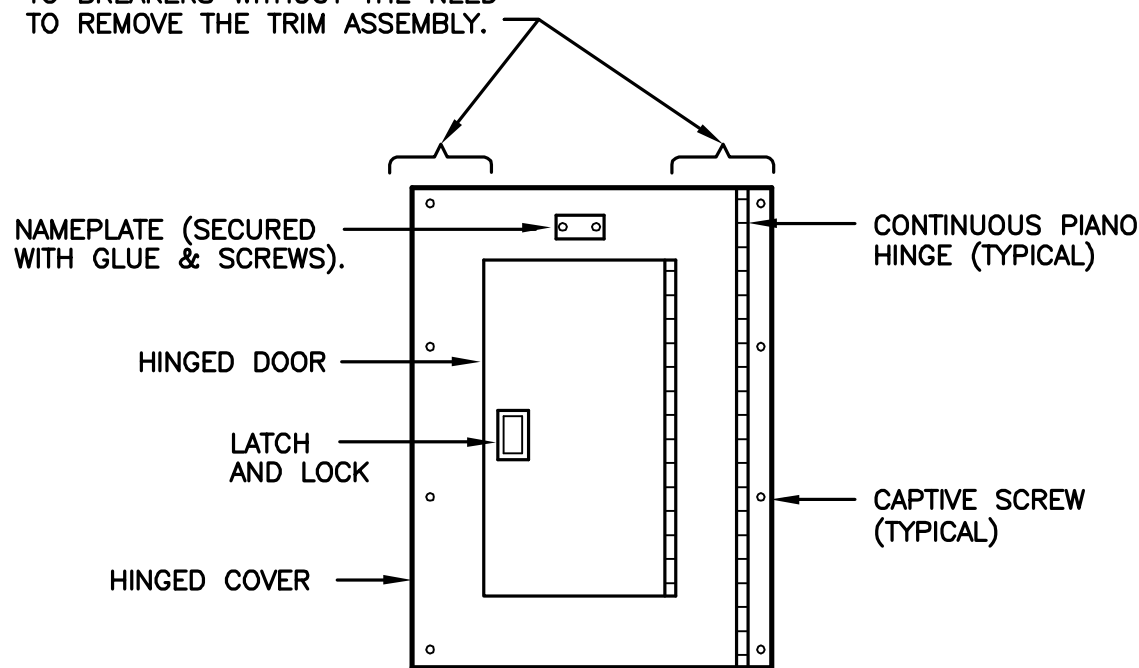


PANELBOARD SCHEDULES

PANEL "2EM3" - 208/120V-3Ø-4W-SN									
LOCATION:	GENERATOR ROOM	MAIN:	100A MCB	MOUNT'G	REMARKS:	NEW PANEL 22,000A/C			
KVA	USE	POLES	AMPS	CKT	CKT	AMPS	POLES	USE	KVA
	SPARE	1	20	1	2	20	1	LOUVER ACTUATORS	1.0
	SPARE	1	20	3	4	20	1	BATTERY CABINET	1.0
	SPARE	1	20	5	6	20	1	GEN. ROOM REC	0.6
	SPARE	1	20	7	8	20	1	FUEL RETURN PUMP	1.0
	SPARE	1	20	9	10	20	2	ANTI-COND. HTR.	0.5
	SPARE	1	20	11	12				0.5
	SPARE	1	20	13	14				3.0
	SPARE	1	20	15	16	35	3	BLOCK HEATER	3.0
	SPARE	1	20	17	18				3.0
	SPARE	1	20	19	20	20	1	SPARE	
	SPARE	1	20	21	22	20	1	SPARE	
	SPARE	1	20	23	24	20	1	SPARE	
				GROUND BUS					

PANELBOARD DETAILS

SIDE GUTTERS SHALL BE SUFFICIENT IN SIZE TO PERMIT WORKING ACCESS TO BREAKERS WITHOUT THE NEED TO REMOVE THE TRIM ASSEMBLY.

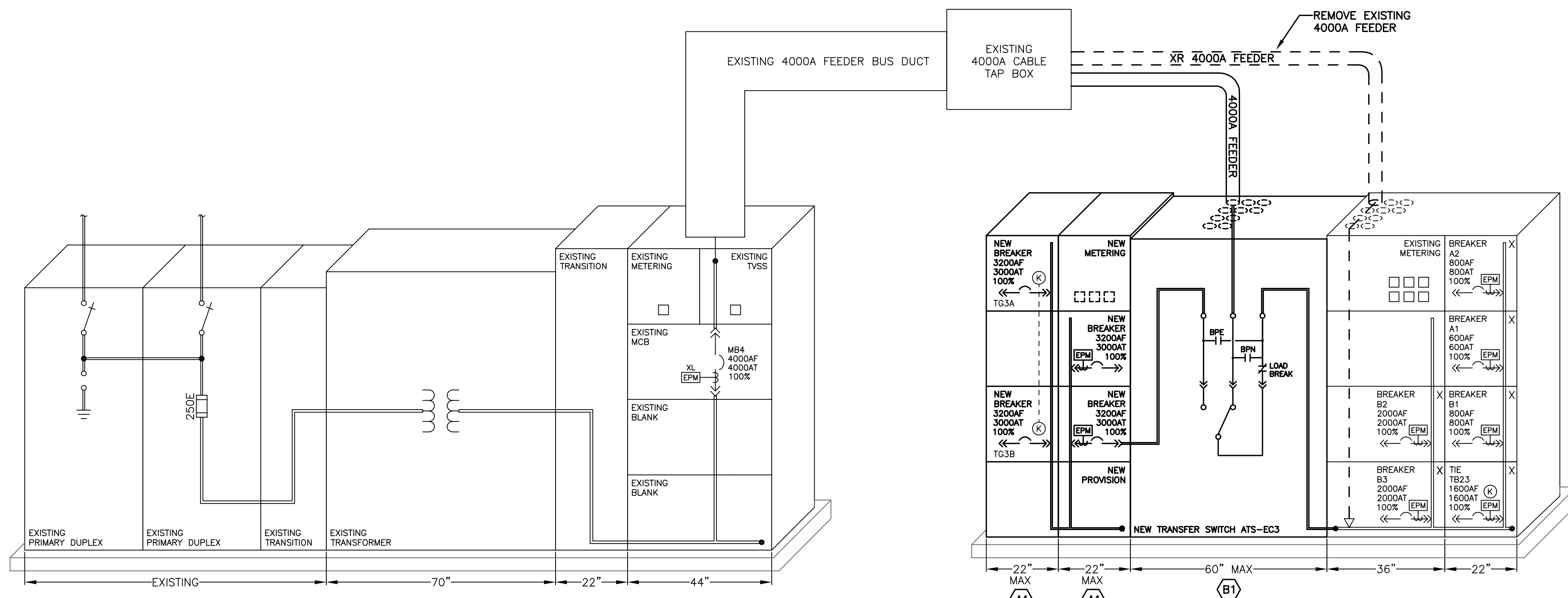


PANELBOARD FRONT DETAIL
NOT TO SCALE

PANELBOARD CONSTRUCTION NOTES:

- ALL NEW PANELBOARDS SHALL BE PROVIDED WITH SUB-FEED LUGS AND SUFFICIENT SIZE WIRING GUTTERS TO ACCOMMODATE ALL FEEDERS (INCLUDING FUTURE) IN A CODE COMPLYING MANNER. FEED THROUGH LUGS ARE NOT ACCEPTABLE.
- ALL NAMEPLATES SHALL BE ENGRAVED PHENOLIC WITH WHITE LETTERS AND BLACK (RED FOR EMERGENCY) BACKGROUND. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REFER TO SPECIFICATIONS FOR PANELBOARD CONSTRUCTION REQUIREMENTS REGARDING BUS, DIRECTORIES, FINISHES, MANUFACTURERS, ETC.
- ONE MONTH AFTER OCCUPANCY BY THE OWNER, THE ELECTRICAL CONTRACTOR SHALL MEASURE AND RECORD THE FEEDER PHASE CURRENTS FOR ALL NEW AND EXISTING PANELBOARDS ASSOCIATED WITH THIS PROJECT, AND SHALL SUBMIT DATA TO ENGINEER.
- PROVIDE UPDATED TYPED SCHEDULES IN EXISTING PANELS, AND NEW SCHEDULES IN NEW PANELS. SCHEDULE DESCRIPTIONS SHALL INCLUDE TYPE OF LOAD (RECEPTACLES, LIGHTING, ETC., ETC.) AND ROOM NUMBER WHERE LOAD IS LOCATED.
- PROVIDE NEW PANEL FRONTS FOR SELECTED EXISTING PANELS AS INDICATED ON PLANS.
- CIRCUIT ASSIGNMENTS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY AVAILABILITY PRIOR TO ROUGH-IN AND ORDERING ENGRAVED COVERPLATES. REPORT ANY DEVIATIONS TO ENGINEER FOR APPROVAL.

SUBSTATION ONE-LINE DETAILS



EXISTING SUBSTATION 'EC3', SECTION A
4000A, 480/277V-3Ø-4W

SUBSTATION 'GDS3'
3000A, 480/277V-3Ø-4W

ENCLOSURE	NEMA 1, 92" HIGH, SELF SUPPORTING STRUCTURE - FRONT AND REAR ACCESS SWITCHBOARD. BUILT TO UL 891 STANDARDS. PROVIDE FRONT HINGED DOORS FOR POWER BREAKERS AND METERING COMPARTMENTS. REAR COMPARTMENTS SHALL HAVE BOLTED COVERS. PROVIDE UNIT BREAKER LIFT FOR DRAW-OUT BREAKERS.
MAIN BUS	3000A, 480/277V-3Ø-4W, SILVER PLATED COPPER AT 1000AMPS PER SQUARE INCH - MIN. 100,000A RMS SYMMETRICAL SHORT CIRCUIT BRACING - FULL LENGTH GROUND BUS. EXTEND BUS THROUGH ALL SECTIONS TO ALLOW FOR BUS CONNECTION TO FUTURE DISTRIBUTION SECTIONS.
DISTRIBUTION BREAKERS	DRAW-OUT, LOW VOLTAGE 100% RATED POWER CIRCUIT BREAKER WITH DIGITAL, SOLID STATE TRIP UNIT (100% RATED). TRIP UNIT SHALL HAVE FIELD INSTALLABLE, FRONT-MOUNTED RATING PLUG AND ADJUSTABLE LONG-TIME, SHORT-TIME AND INSTANTANEOUS SETTINGS.
FEEDER TERMINATIONS	ALL FEEDER TERMINATIONS SHALL BE MADE WITH 2-HOLE, LONG BARRELL COMPRESSION LUGS. REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM FOR FEEDER SIZES.
ELECTRIC POWER METER	FURNISH AND INSTALL NEW CT'S FOR EACH BREAKER AND A COMMON SET OF PT'S TO SUPPLY A COMMON LINE-SIDE VOLTAGE INPUT TO ALL METERS. PROVIDE NEW EPMS FOR EACH BREAKER. MATCH EXISTING TYPE [SQUARE D - ION6200R], CONNECT METERS TO EXISTING FACILITIES MANAGEMENT SYSTEM.
NAMEPLATE/LABELING	ENGRAVED PHENOLIC NAMEPLATES FOR ALL BREAKERS, METERS, ETC. PHENOLIC MIMIC BUS LABELING FOR SUBSTATION EQUIPMENT.
CONNECTION	COORDINATE 3000A CONNECTION TO ATS-EC3 WITH ATS PROVIDER. PROVIDE CONNECTION WITHOUT ADDITIONAL TRANSITION SECTION.
KEY INTERLOCKING	PROVIDE MANUAL KEY INTERLOCKING DEVICE BETWEEN MANUAL TIE BREAKERS TG3A AND TG3B. SUBMIT MECHANICAL INTERLOCKING SCHEME WITH SHOP DRAWINGS FOR APPROVAL.

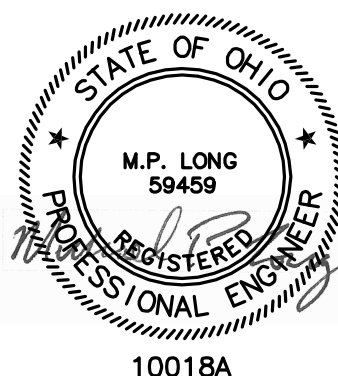
NAME	SERVICE	AMP	POLE	NEUTRAL	BYPASS/ ISOLATION	CENTER OFF DELAY	CLOSED TRANSITION	POWER METER	TC/PI/ COMM.	BLOCK TRANSFER	LOAD SHED	REMOTE TEST	NORM. POS. AUX. CONTACTS	EMERG. POS. AUX. CONTACTS	POWER CABLE CONNECTIONS
ATS-EC3	480/277V-3PH-4W	4000A	4	SWITCHED	YES	YES	NO	YES	YES	NO	NO	NO	(2) FORM C	(2) FORM C	2-BOLT HOLE LONG BARRELL COMPRESSION LUGS

ATS SCHEDULE NOTES:

- TRANSFER SWITCH SHALL BE MOUNTED IN FREESTANDING, NEMA 1 ENCLOSURE (MANUFACTURER: ASCO). COORDINATE CONNECTIONS TO GDS3 AND EC3 - SECTION B WITH MANUFACTURERS.
- PROVIDE 1-1/4"Ø-8 #14 FROM ATS-EC3 TO GENERATOR CONTROL PANEL. ATS VENDOR/MFR SHALL COORDINATE THIS WORK AND INCLUDE WIRING DIAGRAMS SHOWING WIRING TO SPECIFIC TERMINAL BLOCKS WITH SHOP DRAWINGS.
- PROVIDE AUX CONTACTS AND 3/4"Ø-6#14 FROM ATS-EC3 TO TEMPERATURE CONTROL PANEL TO VERIFY POSITION OF TRANSFER SWITCH. CONTRACTOR SHALL COORDINATE THIS WORK WITH ASCO AND INCLUDE WIRING DIAGRAMS SHOWING WIRING TO AUX CONTACTS WITH SHOP DRAWINGS.
- ELECTRONIC POWER METER SHALL LOCALLY DISPLAY AND REMOTELY COMMUNICATE THE FOLLOWING DATA:
 - CURRENT, PER PHASE RMS AND NEUTRAL
 - VOLTAGE, PHASE-TO-PHASE AND PHASE-TO-NEUTRAL
 - REAL POWER (kW), PER PHASE AND 3-PHASE TOTAL
 - APPARENT POWER (kVA), PER PHASE AND 3-PHASE TOTAL
 - REACTIVE POWER (kVAR), PER PHASE AND 3-PHASE TOTAL
 - POWER FACTOR
 - FREQUENCY
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- COORDINATE BUS/FEEDER CONNECTIONS TO ADJACENT SWITCHGEAR EQUIPMENT WITH MANUFACTURER. PROVIDE CONNECTION THAT DOES NOT REQUIRE ANY ADDITIONAL TRANSITION SECTIONS. PROVIDE CONNECTION ELEVATIONS WITH SHOP DRAWINGS FOR APPROVAL.

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Drawing Title
**POWER DISTRIBUTION
ELECTRICAL EQUIPMENT**

Approved: Project Director

Project Title
**CHILLER PLANT
GENERATOR &
DISTRIBUTION UPGRADES**

Location
VAMC - WADE PARK

Date
04-06-2012

Checked
MPL

Drawn
JDM

Project Number
541-11-108

Building Number
1

Drawing Number
2-E9

Office of
Facilities
Management

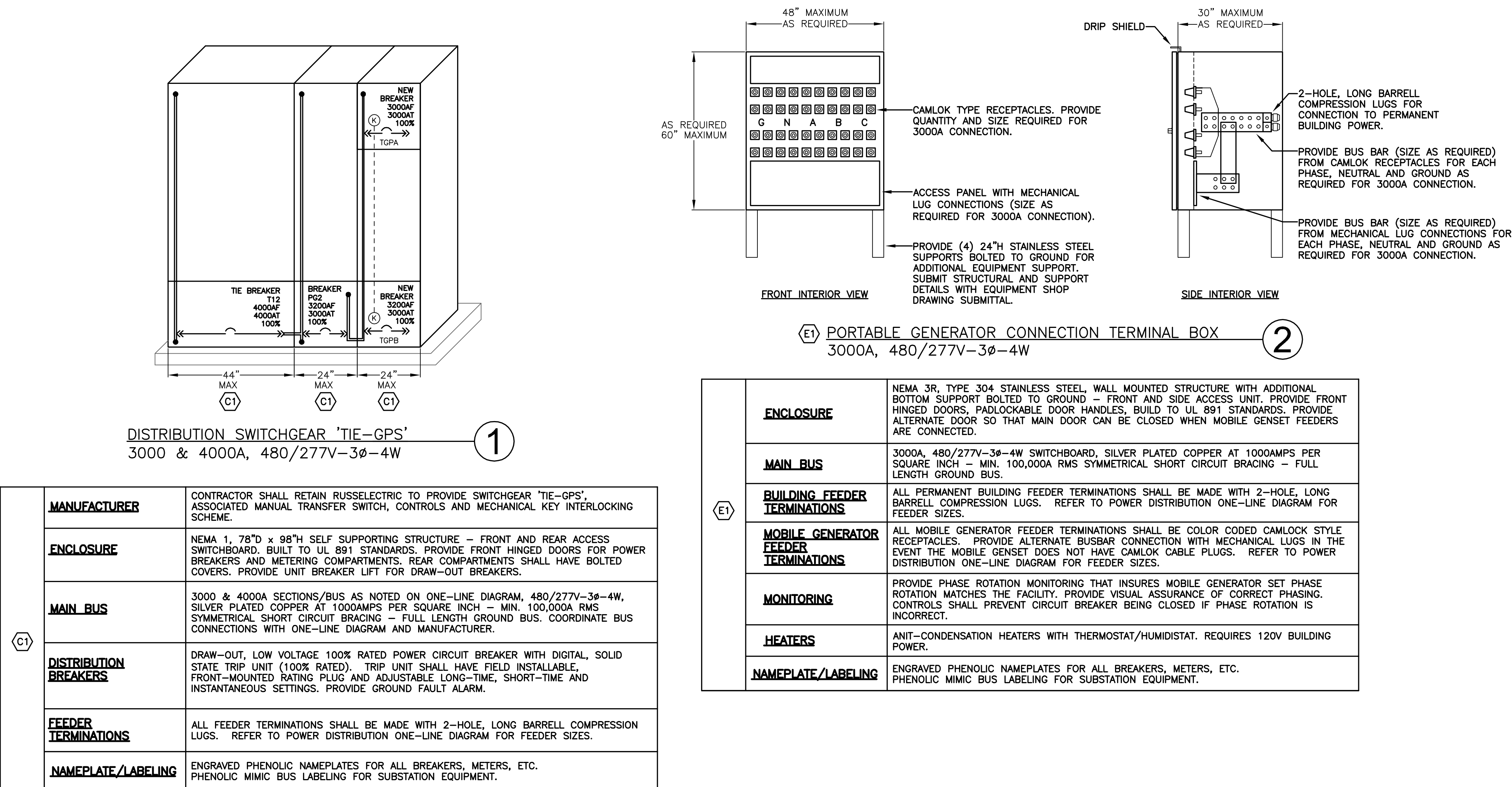
Department of
Veterans Affairs

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one eighth inch = one foot
one quarter inch = one foot
one eighth inch = one foot

ELECTRICAL CONSTRUCTION PHASING

1. INSTALLATION OF NEW EQUIPMENT (NO SHUTDOWN REQUIRED)
- A. THE FOLLOWING LIST OF EQUIPMENT SHALL BE SET IN PLACE ON APPROPRIATE HOUSEKEEPING CONCRETE PADS AT THE LOCATIONS SHOWN ON THE DRAWINGS (IN NO PARTICULAR ORDER):
- a. GENERATOR 'G8'
 - b. PORTABLE GENERATOR CONNECTION 'P2'
 - c. SWITCHGEAR 'GDS3'
 - d. SWITCHGEAR 'TIE-GPS'
 - e. TRANSFER SWITCH 'ATS-EC3'
2. EQUIPMENT CONNECTIONS (NO SHUTDOWN REQUIRED)
- A. PROVIDE ALL FEEDERS, CONTROLS, BUS CONNECTIONS, ETC. AS REQUIRED FOR THE FOLLOWING EQUIPMENT:
- a. GENERATOR 'G8'
 - b. PORTABLE GENERATOR CONNECTION 'P2'
 - c. SWITCHGEAR 'GDS3'
- B. PROVIDE CONDUITS, FEEDERS, CONTROLS, BUS CONNECTIONS, ETC. AS REQUIRED FOR THE FOLLOWING EQUIPMENT:
- a. SWITCHGEAR 'TIE-GPS'
 - PROVIDE BUS CONNECTIONS.
 - PROVIDE MECHANICAL INTERLOCKING DEVICES AND ALL CONTROL WIRING.
 - PROVIDE LINE SIDE CONNECTIONS TO PORTABLE GENERATOR 'P2' AND SWITCHGEAR 'GDS3'.
 - PROVIDE CONDUITS AS FAR AS POSSIBLE FROM 'TIE-GPS' TO 'GPS1' & 'GPS2'
 - b. TRANSFER SWITCH 'ATS-EC3'
 - PROVIDE EMERGENCY FEEDER AND CONNECTION FROM 'GDS3' TO 'ATS-EC3'.
 - PROVIDE ALL CONTROL WIRING.
 - PROVIDE CONDUITS AS FAR AS POSSIBLE FROM 'ATS-EC3' TO 4000A CABLE TAP BOX.
3. ADDITION OF MECHANICAL INTERLOCKING DEVICES ON EXISTING 'GPS1' AND 'GPS2' BREAKERS
- A. THE CONTRACTOR SHALL RETAIN RUSSELECTRIC TO PERFORM THE FOLLOWING WORK.
- a. OPEN EACH BREAKER (G1, G3, G4, G6, G7) TO INSTALL MECHANICAL INTERLOCKING DEVICES. PROVIDE ALL COMPONENTS PER DRAWINGS. ONLY (1) BREAKER MAY BE REMOVED FROM OPERATION AT ANY TIME FOR A MAXIMUM OF (10) CONSECUTIVE HOURS. SHUT DOWN SHALL OCCUR BETWEEN THE HOURS OF 6PM-4AM, MONDAY - FRIDAY, OR ANYTIME SATURDAY OR SUNDAY. COORDINATE SHUTDOWN WITH VA COTR A MINIMUM OF (15) DAYS IN ADVANCE AND CONFIRM SHUTDOWN WITH VA COTR (1) DAY IN ADVANCE.
 - b. THIS WORK CAN BE COMPLETED AT ANY TIME EXCEPT IN CONJUNCTION WITH ITEM #5.
- B. IMPACT OF SHUTDOWN
- a. NOTHING SHALL BE DIRECTLY AFFECTED. ONLY (1) BREAKER SHALL BE OFF-LINE AT ANY TIME WHICH MAY DELAY RECEIVING POWER FROM THE CORRESPONDING GENERATOR. RUSSELECTRIC SHALL BE ABLE TO STOP THE WORK IF AN EMERGENCY SITUATION OCCURS AND HAVE 'GPS1' AND 'GPS2' AT FULL CAPACITY WITHIN 10 MINUTES.
- C. TESTING
- a. TESTING SHALL BE PERFORMED BY RUSSELECTRIC TO VERIFY THE MECHANICAL INTERLOCKING DEVICES WORK PER THE OPERATION SCHEDULE MATRIX AS SHOWN ON DRAWING 2-EB. REFER TO SPECIFICATIONS FOR ADDITIONAL TESTING REQUIREMENTS.
4. 'ATS-EC3' CONNECTIONS - SHUT DOWN 'EC3 SECTION B' TO PROVIDE NORMAL POWER THROUGH NEW TRANSFER SWITCH 'ATS-EC3' AND TO SUBSTATION 'EC3 SECTION B'.
- A. PRIOR TO SHUTDOWN
- a. NEW TRANSFER SWITCH 'ATS-EC3' SHALL BE IN PLACE.
 - b. FEEDER FOR EMERGENCY POWER SHALL ALREADY BE RUN AND TERMINATED.
 - c. CONDUITS FOR NORMAL POWER SHALL ALREADY BE PARTIALLY RUN NEAR EXISTING CABLE TAP BOX.
 - d. BUS CONNECTION BETWEEN 'ATS-EC3' AND 'EC3 - SECTION B' SHALL ALREADY BE COORDINATED WITH MANUFACTURERS.
 - e. COORDINATE SHUTDOWN WITH VA COTR A MINIMUM OF (15) DAYS IN ADVANCE.
 - f. CONFIRM SHUTDOWN WITH VA COTR (1) DAY IN ADVANCE.
- B. DURING SHUTDOWN
- a. SHUTDOWN SHALL LAST FOR A MAXIMUM OF (10) CONSECUTIVE HOURS BETWEEN THE HOURS OF 6PM-4AM, MONDAY - FRIDAY, OR ANYTIME SATURDAY OR SUNDAY AND SHALL OCCUR DURING OFF-PEAK COOLING DAYS.
 - b. DISCONNECT POWER BY OPENING BREAKER 'MB4' ON 'EC3 - SECTION A'.
 - c. REMOVE 4000A FEEDER CONNECTION BACK TO CABLE TAP BOX.
 - d. COMPLETE NORMAL CONDUIT RUN FROM 'ATS-EC3' TO EXISTING CABLE TAP BOX.
 - e. PROVIDE WIRING AND TERMINATIONS FROM 'ATS-EC3' TO EXISTING CABLE TAP BOX.
 - f. PROVIDE BUS CONNECTION BETWEEN 'ATS-EC3' AND 'EC3 - SECTION B'.
 - g. TURN ON POWER BY CLOSING BREAKER 'MB4' ON 'EC3 - SECTION A' AFTER ALL FEEDERS AND TERMINATIONS ARE COMPLETE.
- C. IMPACT OF SHUTDOWN
- a. CHILLERS CH-4, CH-5 AND ASSOCIATED PUMPS WILL NOT HAVE POWER DURING THE SHUTDOWN.
- D. TESTING
- a. REFER TO SPECIFICATIONS FOR TESTING REQUIREMENTS.
5. 'TIE-GPS' CONNECTIONS - DISCONNECT PARALLELING SWITCHGEAR 'GPS2' TIE BREAKER 'T21' AND PROVIDE CONNECTIONS BETWEEN 'GPS1', 'GPS2' AND 'TIE-GPS'.
- A. PRIOR TO SHUTDOWN
- a. CONTRACTOR SHALL RETAIN RUSSELECTRIC FOR PARALLEL SWITCHGEAR PROGRAMMING OF EXISTING TIE BREAKER 'T21' AND NEW TIE BREAKER 'T12'. RUSSELECTRIC SHALL BE ON SITE FOR THE DURATION OF THE SHUTDOWN.
 - b. NEW SWITCHGEAR AND MANUAL TIE BREAKER 'TIE-GPS' SHALL BE IN PLACE.
 - c. BUS CONNECTIONS BETWEEN 'TIE-GPS' SHALL ALREADY BE COMPLETED.
 - d. LINE SIDE FEEDERS CONNECTING INTO 'TIE-GPS' SHALL ALREADY BE RUN AND TERMINATED.
 - e. CONDUITS FOR CONNECTION BETWEEN 'TIE-GPS' & 'GPS1', AND 'TIE-GPS' & 'GPS2' SHALL ALREADY BE PARTIALLY RUN.
 - f. COORDINATE SHUTDOWN WITH VA COTR A MINIMUM OF (15) DAYS IN ADVANCE.
 - g. CONFIRM SHUTDOWN WITH VA COTR (1) DAY IN ADVANCE.
- B. DURING SHUTDOWN
- a. SHUTDOWN SHALL LAST FOR A MAXIMUM OF (10) CONSECUTIVE HOURS BETWEEN THE HOURS OF 6PM-4AM, MONDAY - FRIDAY, OR ANYTIME SATURDAY OR SUNDAY.
 - b. DISCONNECT POWER BY OPENING BREAKER 'T21' ON 'GPS2'.
 - c. REMOVE 4000A FEEDER BETWEEN 'GPS1' AND 'GPS2'.
 - d. COMPLETE CONDUIT RUNS BETWEEN 'TIE-GPS' & 'GPS1', AND 'TIE-GPS' & 'GPS2'.
 - e. PROVIDE WIRING AND TERMINATIONS BETWEEN 'TIE-GPS' & 'GPS1', AND 'TIE-GPS' & 'GPS2'.
- C. IMPACT OF SHUTDOWN
- a. PARALLELING SWITCHGEAR WILL NOT BE ABLE TO SYNC DURING SHUTDOWN. GENERATORS WILL STILL BE ABLE TO SUPPLY 'GPS1' AND 'GPS2' SEPARATELY.
- D. TESTING
- a. TESTING SHALL BE PERFORMED BY RUSSELECTRIC TO VERIFY THAT SWITCHGEAR 'GPS1' AND 'GPS2' WILL PARALLEL AFTER (2) GENERATORS SUPPLY POWER TO THE SYSTEM.
 - b. CONTRACTOR SHALL REFER TO SPECIFICATIONS FOR ADDITIONAL TESTING REQUIREMENTS.

SWITCHGEAR ONE-LINE DETAILS




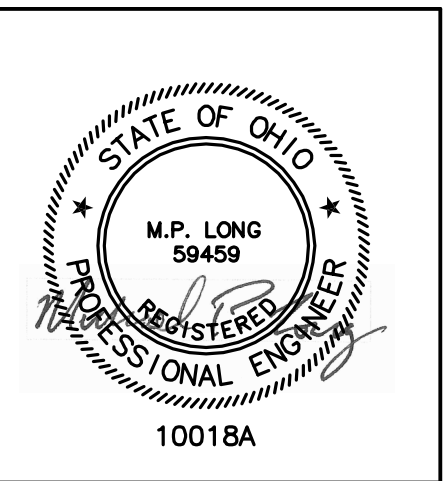
INSTRUCTIONAL EQUIPMENT PLACARD:

- PROVIDE (8) 17"x22" ENGRAVED PLACARDS FOR SWITCHGEAR BREAKER INSTRUCTIONS. CONTRACTOR SHALL PROVIDE ITEMS AS FOLLOWS:
- ENGRAVED 1/4" MICARTA PLACARD MOUNTED ON EQUIPMENT WITH SCREWS.
 - ASSUME 1000 CHARACTERS/SYMBOLS PER INSTRUCTIONAL PLACARD. CHARACTER/SYMBOLS SHALL BE ASSUMED TO BE OF VARIOUS HEIGHTS AND STYLES.
 - VERIFY EXACT SIZE, TEXT STYLE, COLOR AND MOUNTING LOCATION OF INSTRUCTIONAL PLACARDS WITH VAMC COTR PRIOR TO ORDERING.
 - INSTRUCTION PLACARD WORDING SHALL BE PROVIDED BY THE VAMC THROUGH THE COMMISSIONING PROCESS. CONTRACTOR SHALL PROVIDE FINAL ENGRAVED PLACARDS WITHIN (4) WEEKS OF RECEIVING FINAL WORDING.

FINAL CD SUBMISSION - FOR CONSTRUCTION	04-06-12
Revisions:	Date

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Drawing Title
**POWER DISTRIBUTION
ELECTRICAL EQUIPMENT**

Approved: Project Director

Project Title
**CHILLER PLANT
GENERATOR &
DISTRIBUTION UPGRADES**

Location
VAMC - WADE PARK

Date
04-06-2012

Checked
MPL


Drawn
JDM

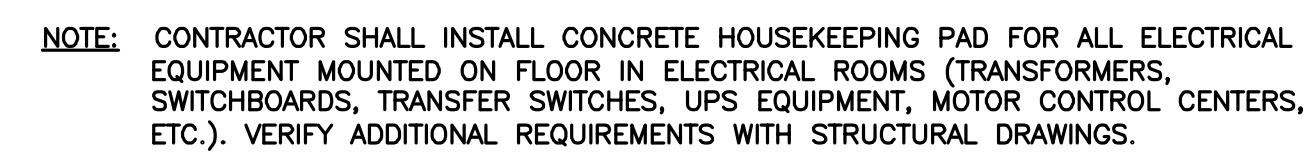
Project Number
541-11-108

Building Number
1

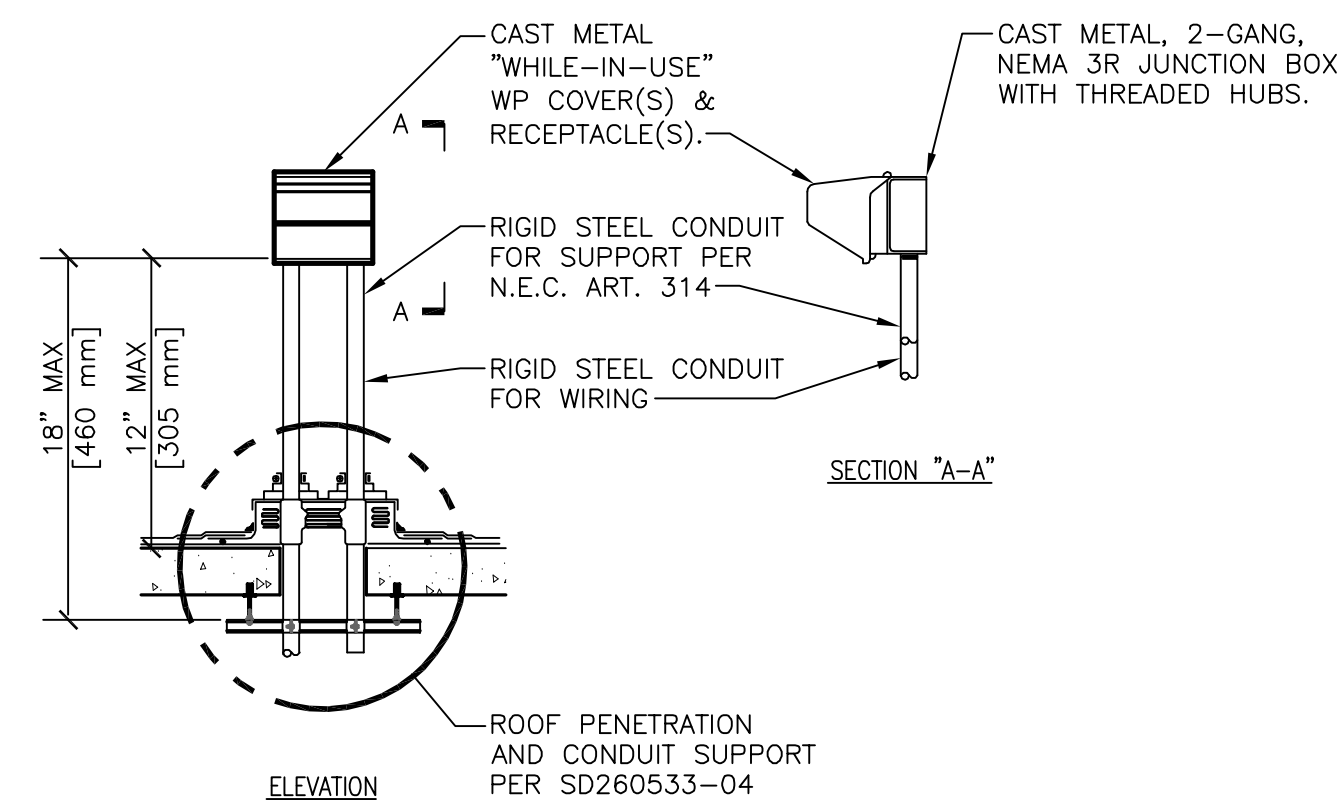
Drawing Number
2-E10

**Office of
Facilities
Management**

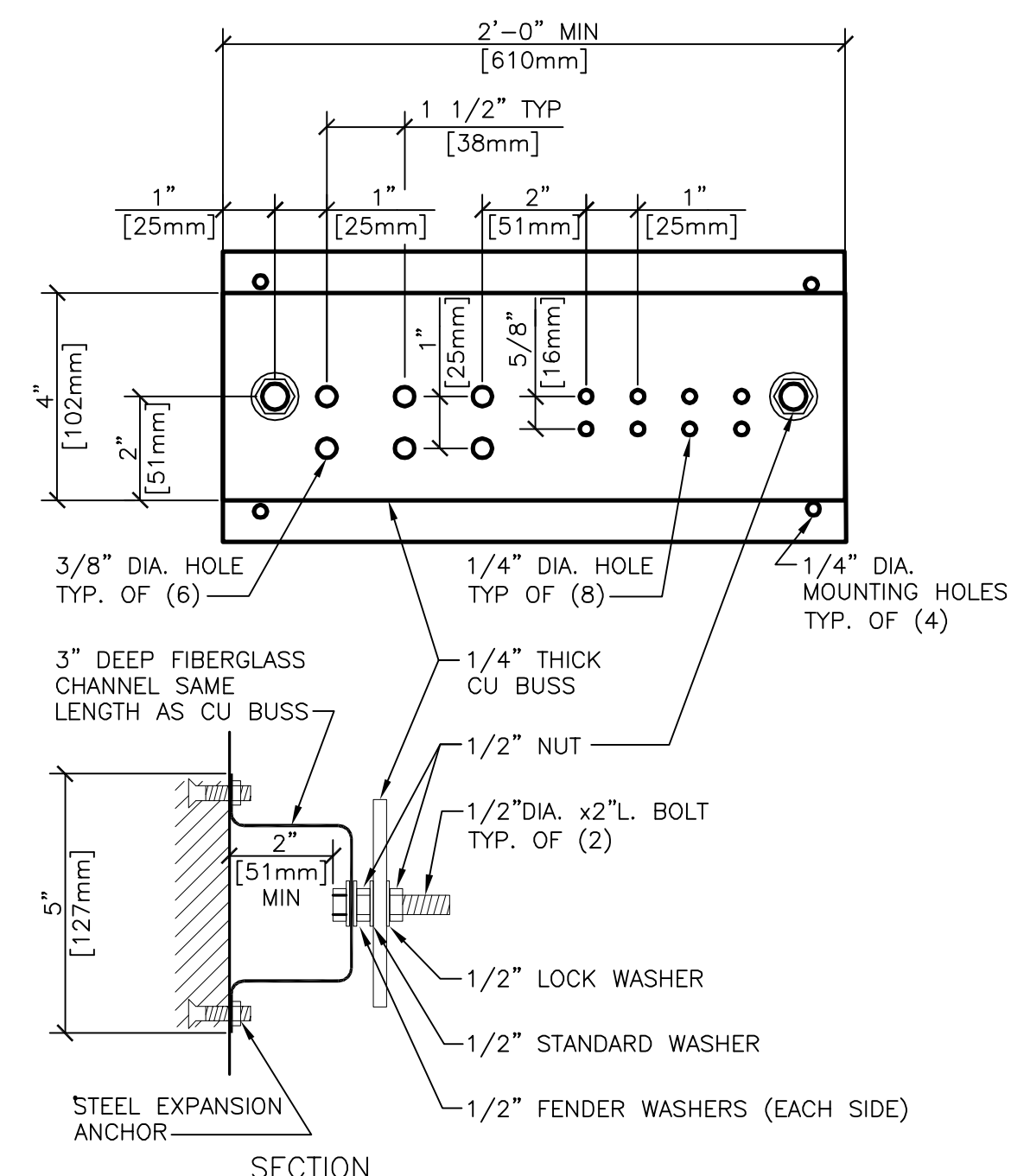
 Department of
Veterans Affairs



TYPICAL HOUSEKEEPING CONCRETE PAD
NOT TO SCALE

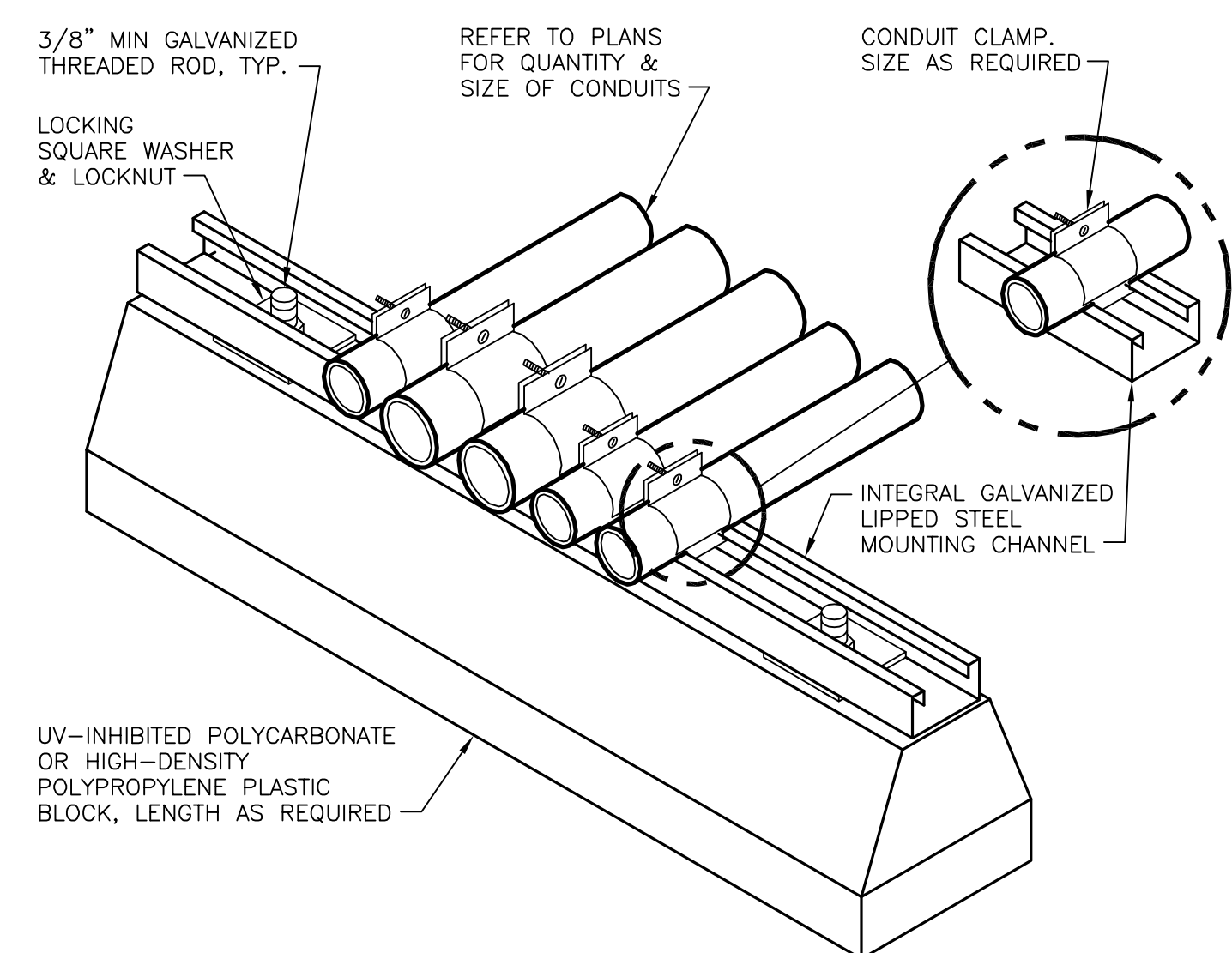


RECEPTACLE ROOF MOUNTING DETAIL

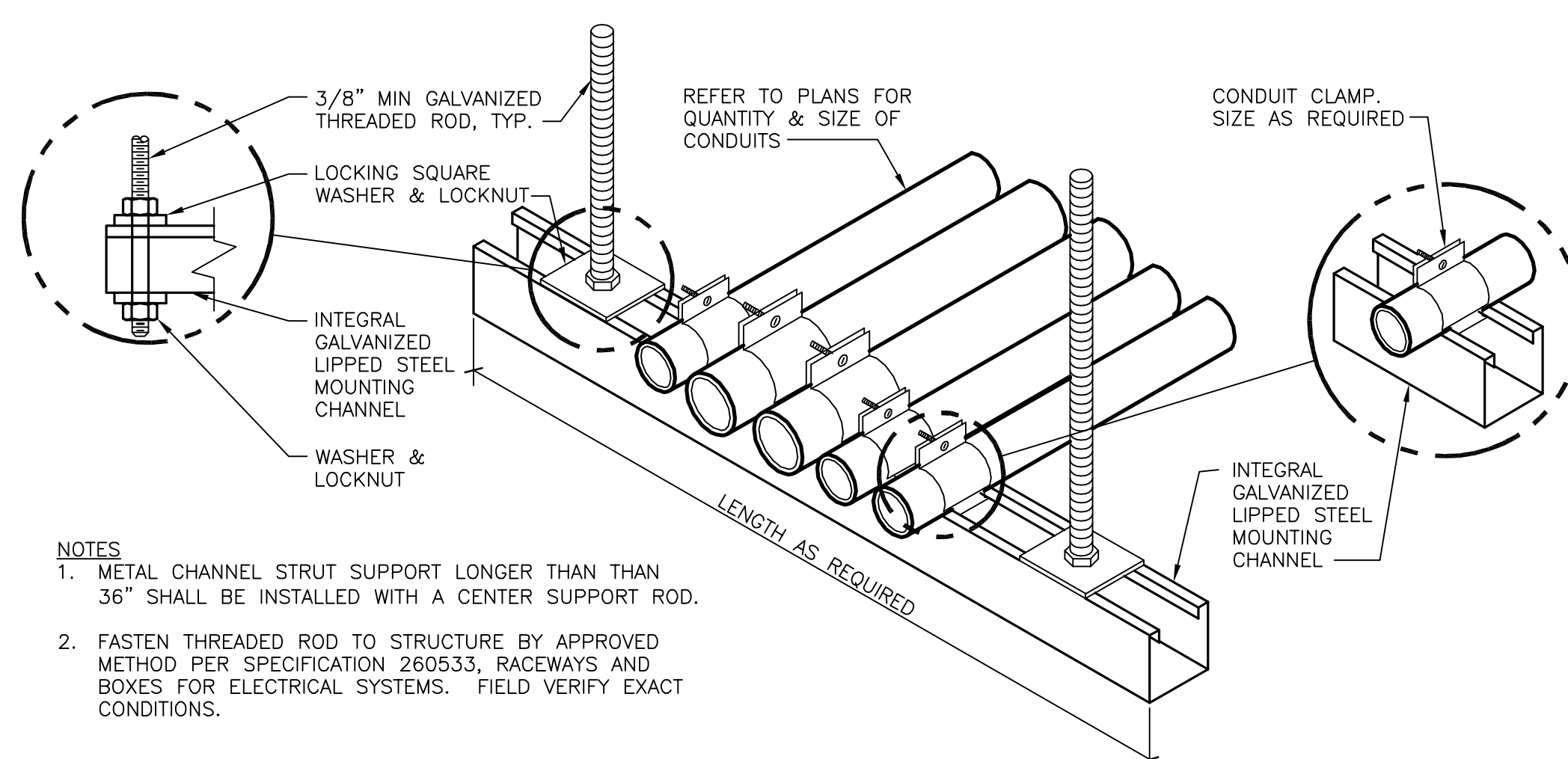


- GENERAL NOTES
1. ALL HARDWARE SHOWN SHALL BE STAINLESS STEEL.
 2. PROVIDE 1 MOUNTING POINT PER 12" OF BAR LENGTH
 3. HOLES MAY BE ADDED IF REQUIRED.

GROUNDING BAR DETAIL

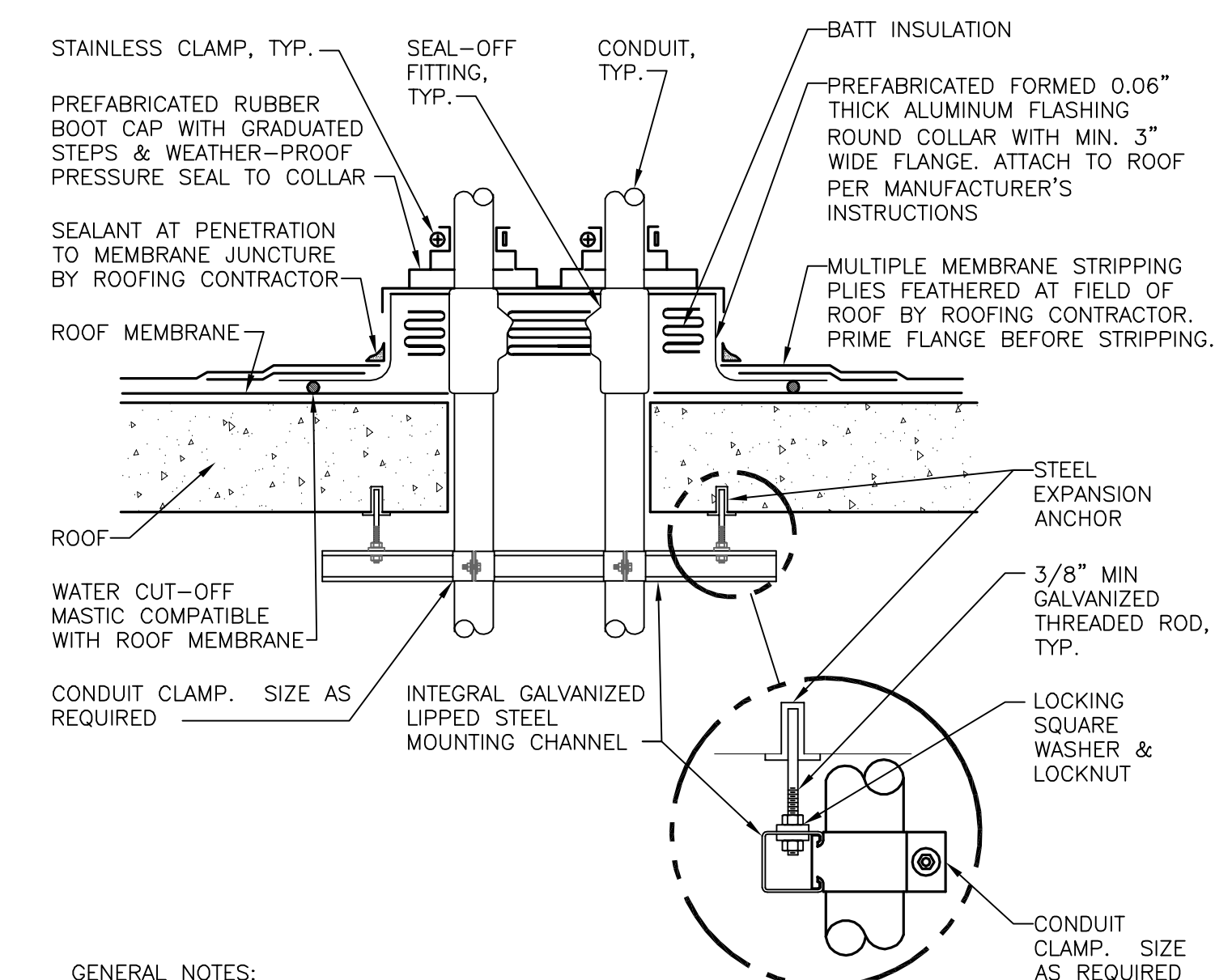


ROOF CONDUIT SUPPORT DETAIL



- NOTES**
1. METAL CHANNEL STRUT SUPPORT LONGER THAN THAN 36" SHALL BE INSTALLED WITH A CENTER SUPPORT ROD.
 2. FASTEN THREADED ROD TO STRUCTURE BY APPROVED METHOD PER SPECIFICATION 260533, RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS. FIELD VERIFY EXACT CONDITIONS.

CONDUIT TRAPEZE MOUNTING DETIAL



- GENERAL NOTES:
1. MAINTAIN A MINIMUM CLEARANCE OF 12" [308mm] ON ALL SIDES OF ROOF PENETRATION FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.
 2. FLANGES OF ADJACENT FLASHINGS SHALL NOT BE CUT OR OVERLAPPED.
 3. VERIFY ROOF & STRUCTURAL SYSTEM WITH ARCHITECT.
 4. COORDINATE FLASHING INSTALLATION WITH ROOFING CONTRACTOR TO ENSURE PROPER METHODS & MATERIALS ARE USED TO MAINTAIN ROOF WARRANTY.

ROOF PENETRATION DETAIL

FINAL CD SUBMISSION - FOR CONSTRUCTION	04-06-12
Revisions:	Date



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Approved: Project Director

Date	04-06-2012
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2-E11

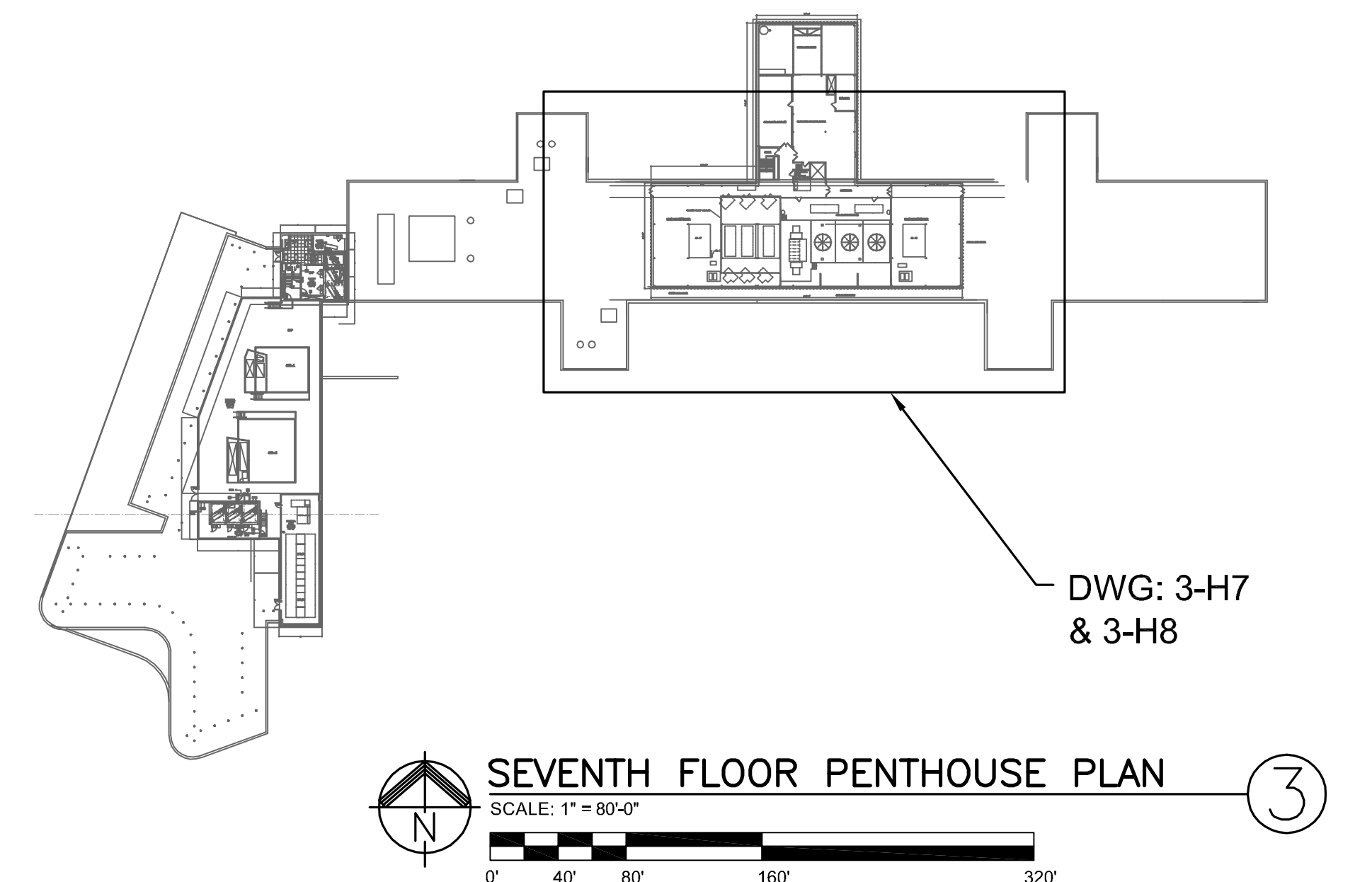
 Department of
Veterans Affairs

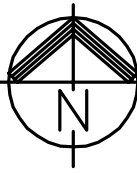
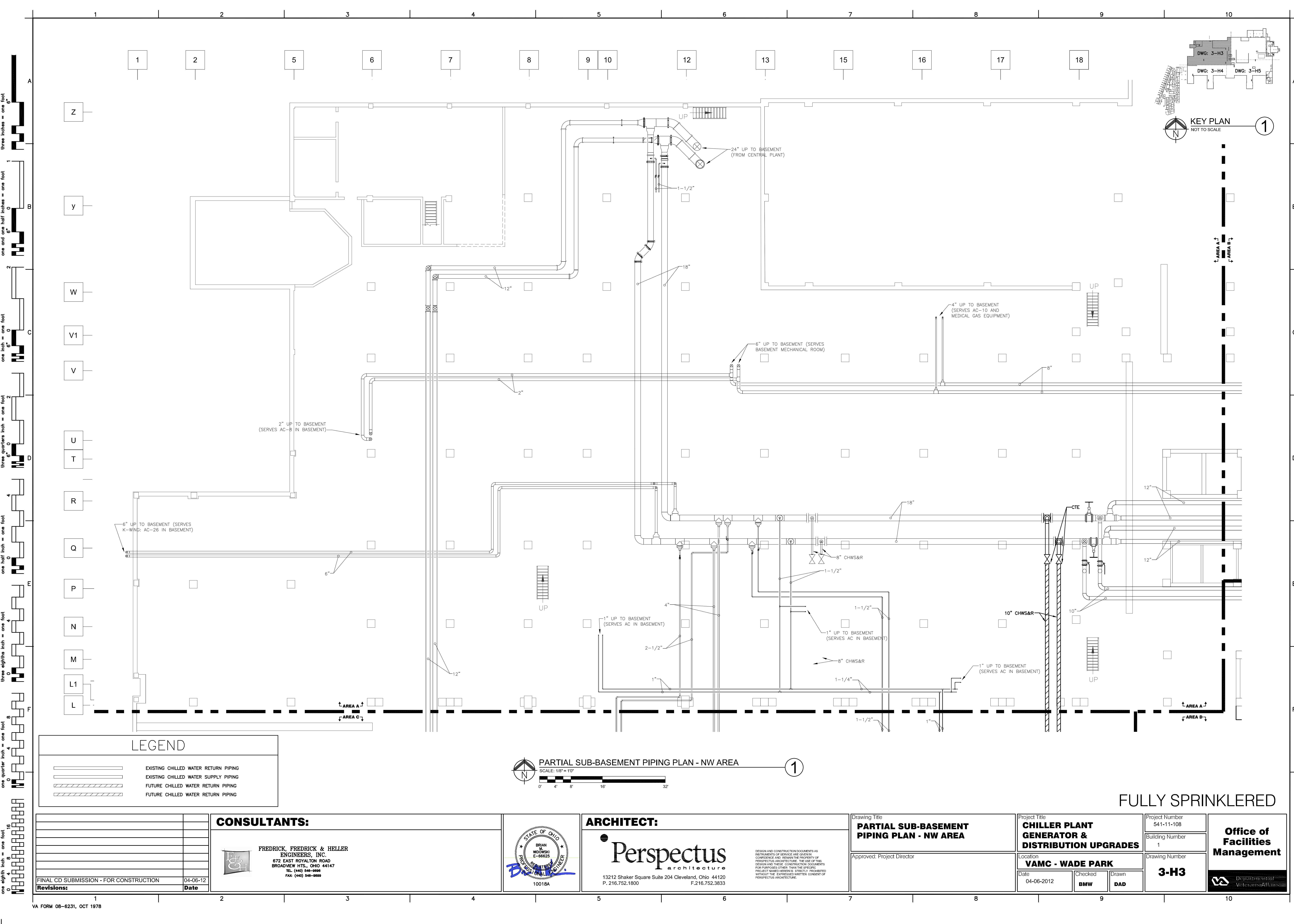
CHILLED WATER SYSTEM SHUTDOWN NOTES

- A. TIE-INS TO THE MAIN CHILLED WATER LINES IN THE SUBBASEMENT SHALL BE LIMITED TO ONE SCHEDULED SHUTDOWN. THE CONTRACTOR SHALL COMPLETE THE SHUTDOWN, DRAIN, TIE-IN, INSULATE, FILL, AND START-UP DURING A CHILLED WATER PLANT SHUTDOWN FROM JANUARY 1ST THRU JANUARY 15TH.
- B. CONTRACTOR SHALL SUBMIT AN OVERALL SHUTDOWN SCHEDULE TO THE COTR FOR APPROVAL. SPECIFIC EQUIPMENT SHUTDOWN REQUEST MUST BE SUBMITTED TO THE VA COTR 14 DAYS PRIOR TO THE SHUTDOWN. THE REQUEST SHALL INCLUDE: SHUTDOWN DATE AND TIME, EQUIPMENT AND ROOMS AFFECTED, DATE AND TIME EQUIPMENT WILL BE BACK IN SERVICE, TEMPORARY COOLING EQUIPMENT TO BE USED.
- C. BALANCE SHALL RECORD CHILLED WATER FLOW AND DISCHARGE AIR TEMPERATURE OF EACH AHU PRIOR TO THE SCHEDULED SHUTDOWNS.
- D. ALL MINOR CHILLED WATER BRANCH SHUTDOWNS AND TIE-INS WILL OCCUR OVER THE WEEKEND, SATURDAY AND SUNDAY. THE SCOPE FOR A WEEKEND TIE-IN WILL INCLUDE; FLUSHING FACILITIES TO REMOVE AIR FROM SHUT OFF EQUIPMENT AND MAIN. DURING CHILLED WATER BRANCHES FEEDING THE EQUIPMENT, CUT IN THE TEES AND VALVES, FLUSH BRANCH PIPING, CLEAN STRAINER, FILL BRANCHES, OPEN NEW VALVES TO CHILLED WATER MAINS, ADJUST BALANCE VALVES TO OBTAIN REQUIRED FLOWS, START-UP EQUIPMENT, VERIFY OPERATION.
- E. THE CONTRACTOR SHALL PROVIDE TEMPORARY COOLING EQUIPMENT FOR EACH SPACE THAT MUST REMAIN IN USE. THIS INCLUDES PROVIDING HOSES FOR WATER AND DRAIN CONNECTIONS, OR TEMPORARY DUCTWORK TO REJECT HOT AIR.

BALANCER NOTES

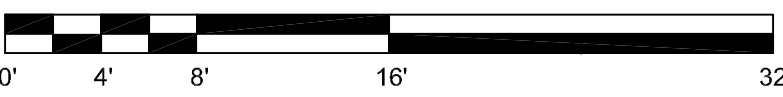
1. THE FOLLOWING AIR HANDLING UNITS WILL BE DIRECTLY AFFECTED DUE TO CHANGES IN THE CHILLED WATER SYSTEM, THUS ALL BALANCER NOTES SHALL APPLY TO THESE UNITS.
 - SF-1, SF-2, SF-3, SF-4, AC-28, AC-31, AC-32, AC-17, AC-18, AC-34
2. BALANCER SHALL RECORD CHILLED WATER FLOW AND DISCHARGE AIR TEMPERATURE OF EACH AHU PRIOR TO THE SCHEDULED SHUTDOWNS.
3. AFTER CHILLED WATER PIPING MODIFICATIONS;
 - A. RESET BALANCE VALVES TO DESIGN FLOW RATES
 - B. RECORD COIL PRESSURE DROP AND FLOW
4. MEASURE DISCHARGE AIR TEMPERATURE
5. MEASURE DIFFERENTIAL PRESSURE AT CHW DIFFERENTIAL PRESSURE SENSORS
 - A. ACC BASEMENT MECHANICAL ROOM
 - B. 7TH FLOOR PENTHOUSE
6. ADJUST 7TH FLOOR PENTHOUSE DIFFERENTIAL PRESSURE SET POINT TO MEET FLOW FOR AC-17 AND AC-18
7. ADJUST ACC DIFFERENTIAL PRESSURE SET POINT TO MEET FLOW IN AC-53 AND AC-55

[illegible]



PARTIAL SUB-BASEMENT PIPING PLAN - NW AREA

SCALE: 1/8" = 10'



1

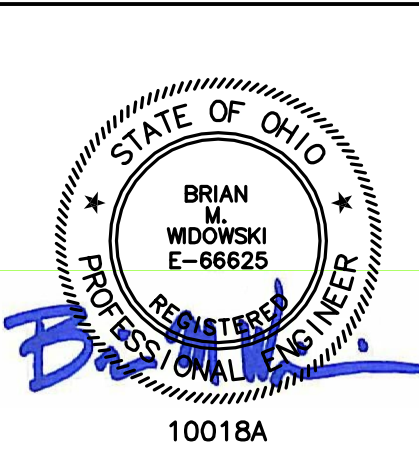
LEGEND

- EXISTING CHILLED WATER RETURN PIPING
- EXISTING CHILLED WATER SUPPLY PIPING
- FUTURE CHILLED WATER RETURN PIPING
- FUTURE CHILLED WATER SUPPLY PIPING

FINAL CD SUBMISSION - FOR CONSTRUCTION	04-06-12
Revisions:	Date

CONSULTANTS:

FREDRICK, FREDRICK & HELLER
ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL (440) 546-9088
FAX (440) 546-9099



ARCHITECT:

Perspectus
architecture

13212 Shaker Square Suite 204 Cleveland, Ohio 44120
P. 216.752.1800 F.216.752.3833

DESIGN AND CONSTRUCTION DOCUMENTS AS INSTRUMENTS OF SERVICE ARE GRANTED CONFIDENCE AND REMAIN THE PROPERTY OF PERSPECTUS ARCHITECTURE. THE USE OF THIS DESIGN AND THESE CONSTRUCTION DOCUMENTS FOR PURPOSES OTHER THAN THE SPECIFIC PROJECT NAMED HEREIN IS STRICTLY PROHIBITED WITHOUT THE EXPRESSED WRITTEN CONSENT OF PERSPECTUS ARCHITECTURE.

Drawing Title
PARTIAL SUB-BASEMENT
PIPING PLAN - NW AREA

Approved: Project Director

Project Title
CHILLER PLANT
GENERATOR &
DISTRIBUTION UPGRADES

Location
VAMC - WADE PARK

Date
04-06-2012

Checked
BMW

Drawn
DAD

Project Number
541-11-108

Building Number
1

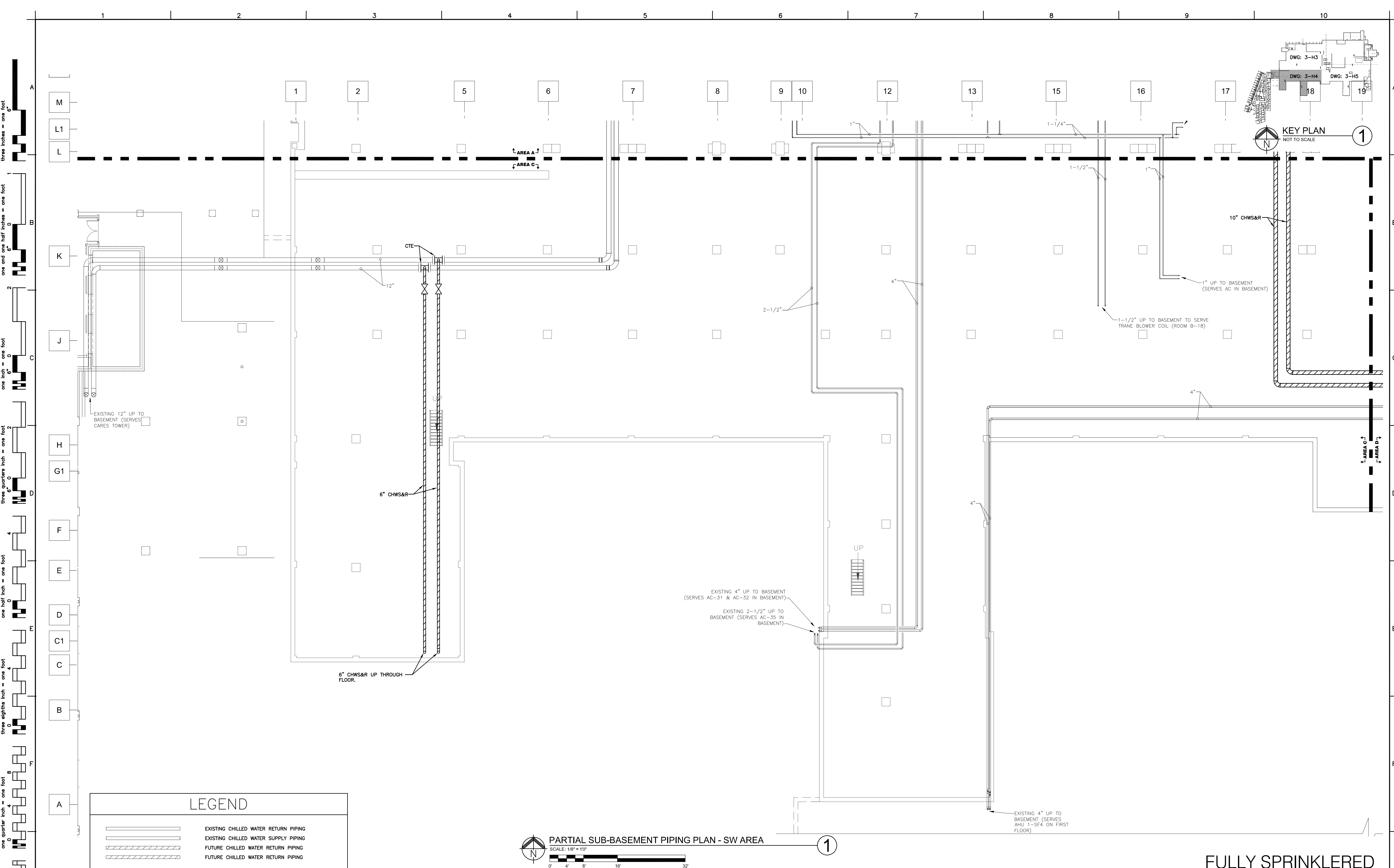
Drawing Number

3-H3

Office of
Facilities
Management




FULLY SPRINKLERED



FINAL CD SUBMISSION - FOR CONSTRUCTION	04-06-12
Revisions:	Date

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Drawing Title

PARTIAL SUB-BASEMENT
PIPING PLAN - SW AREA

Approved: Project Director

Project Title

CHILLER PLANT
GENERATOR &
DISTRIBUTION UPGRADES

Location

VAMC - WADE PARK

Date

04-06-2012

Checked

BMW

Drawn

DAD

Project Number

541-11-108


Building Number

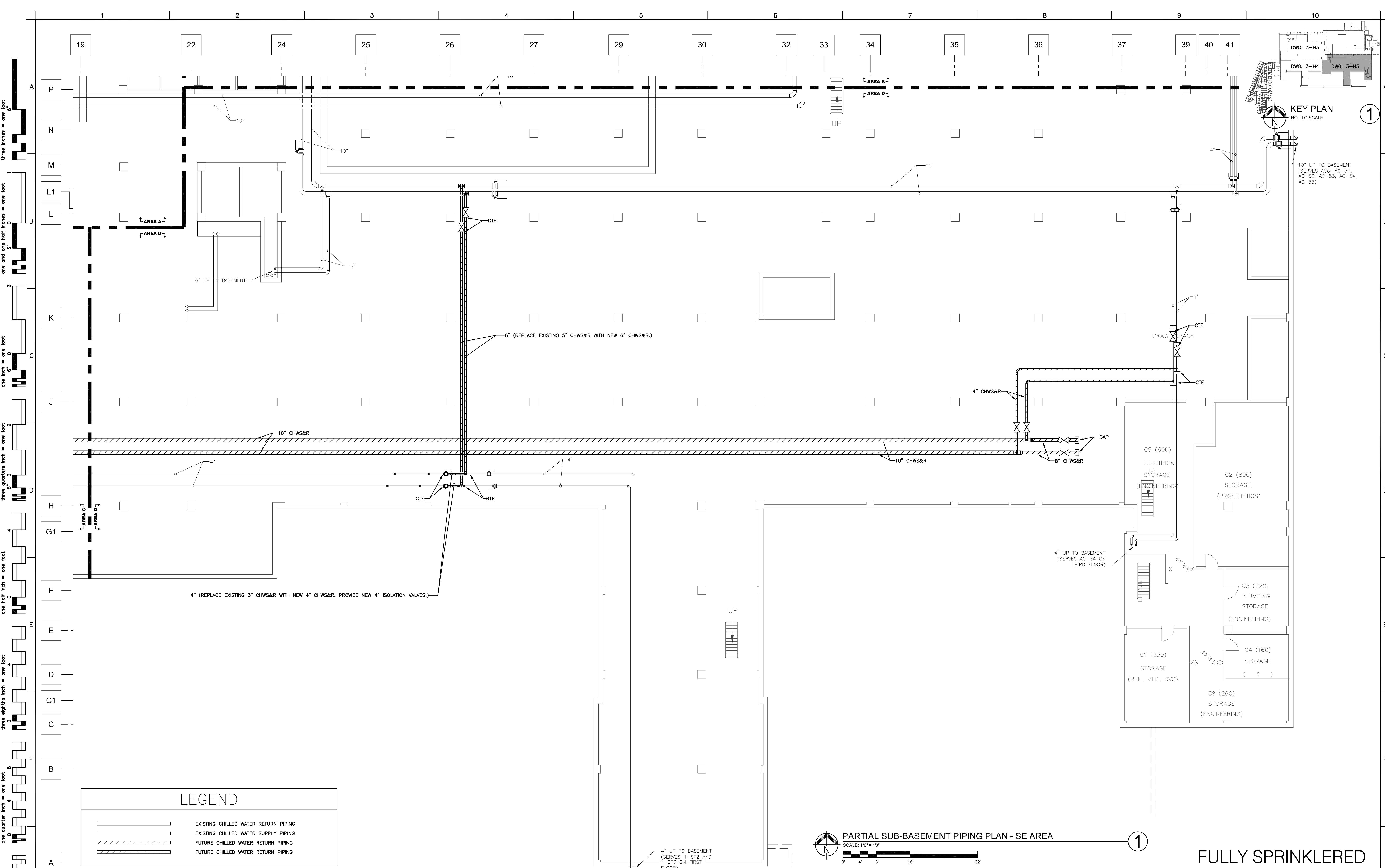
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Drawing Number

3-H4

Office of
Facilities
Management



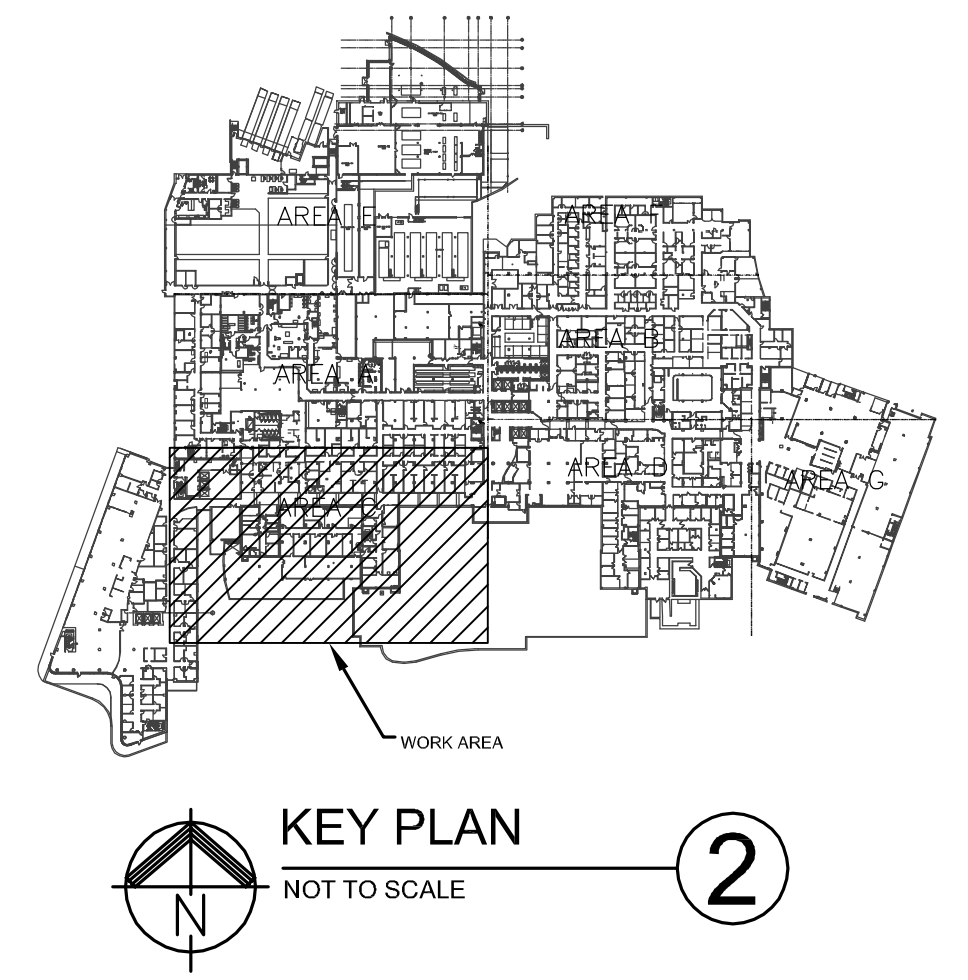
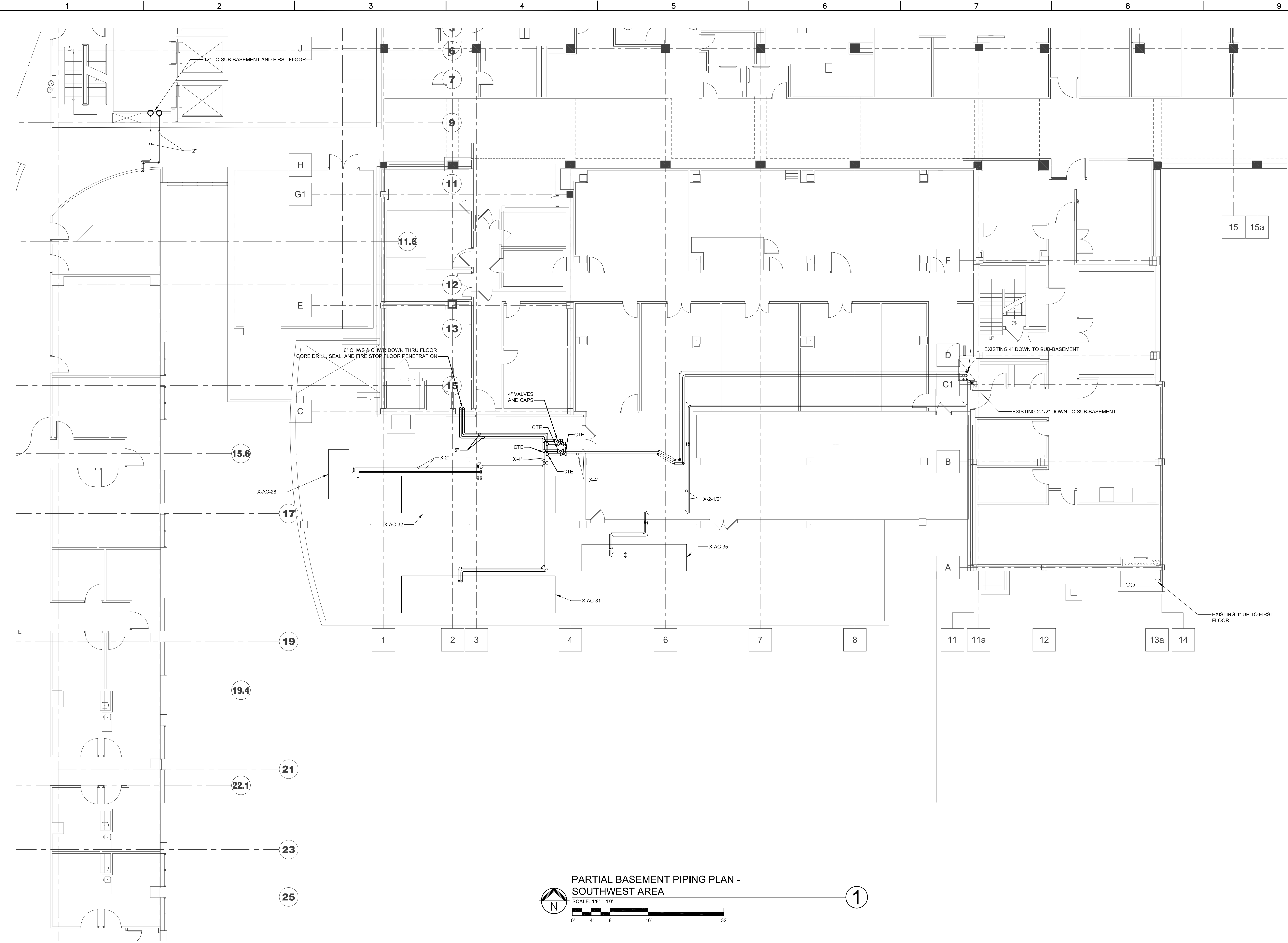


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VA FORM 08-6231, OCT 1978

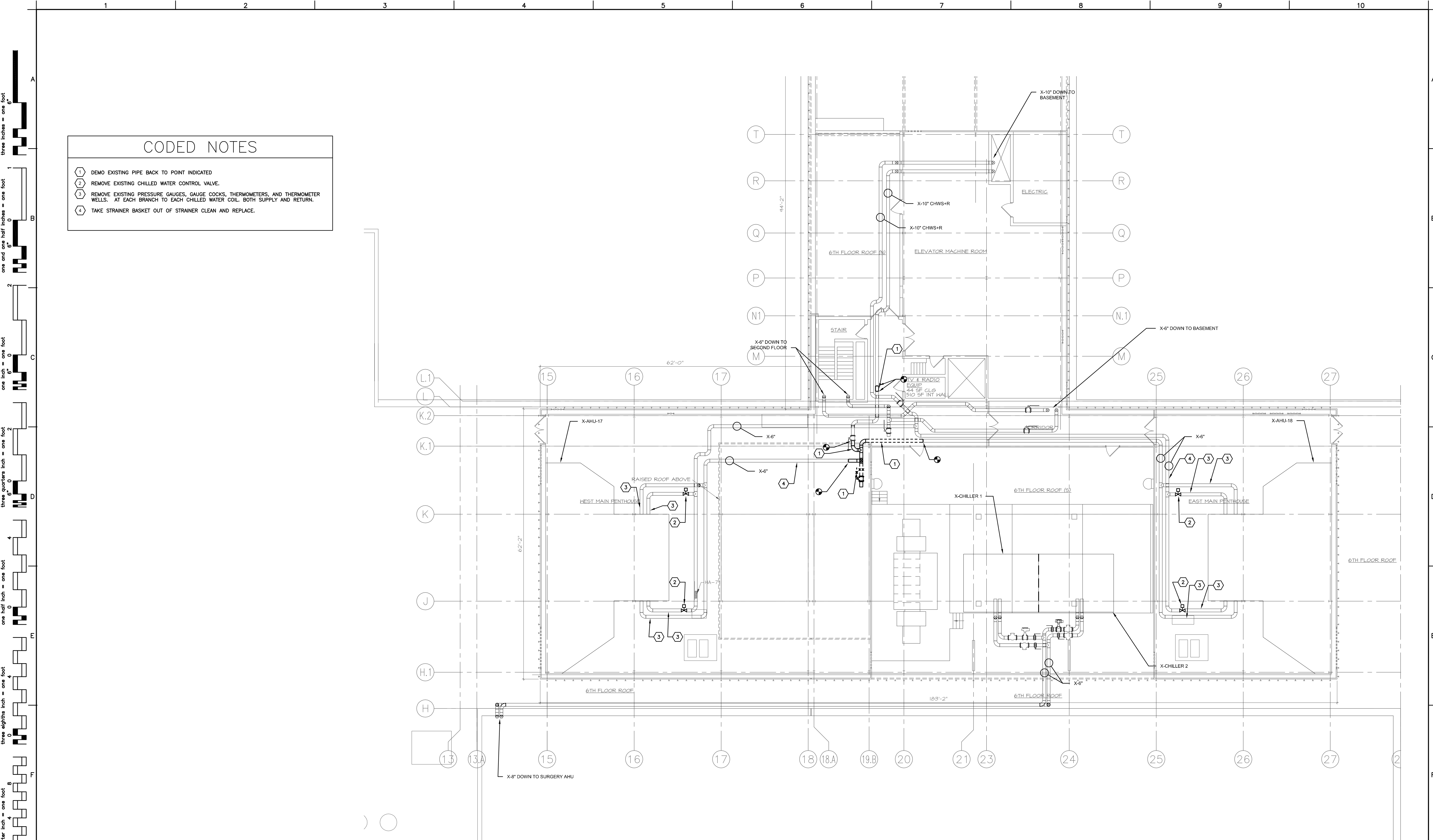
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PARTIAL BASEMENT PIPING PLAN -
SOUTHWEST AREA
SCALE: 1/8" = 10'
1

FULLY SPRINKLERED

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- CODED NOTES
- 1

DEMO EXISTING PIPE BACK TO POINT INDICATED
- 2

REMOVE EXISTING CHILLED WATER CONTROL VALVE.
- 3

REMOVE EXISTING PRESSURE GAUGES, GAUGE COCKS, THERMOMETERS, AND THERMOMETER WELLS. AT EACH BRANCH TO EACH CHILLED WATER COIL. BOTH SUPPLY AND RETURN.
- 4

TAKE STRAINER BASKET OUT OF STRAINER CLEAN AND REPLACE.

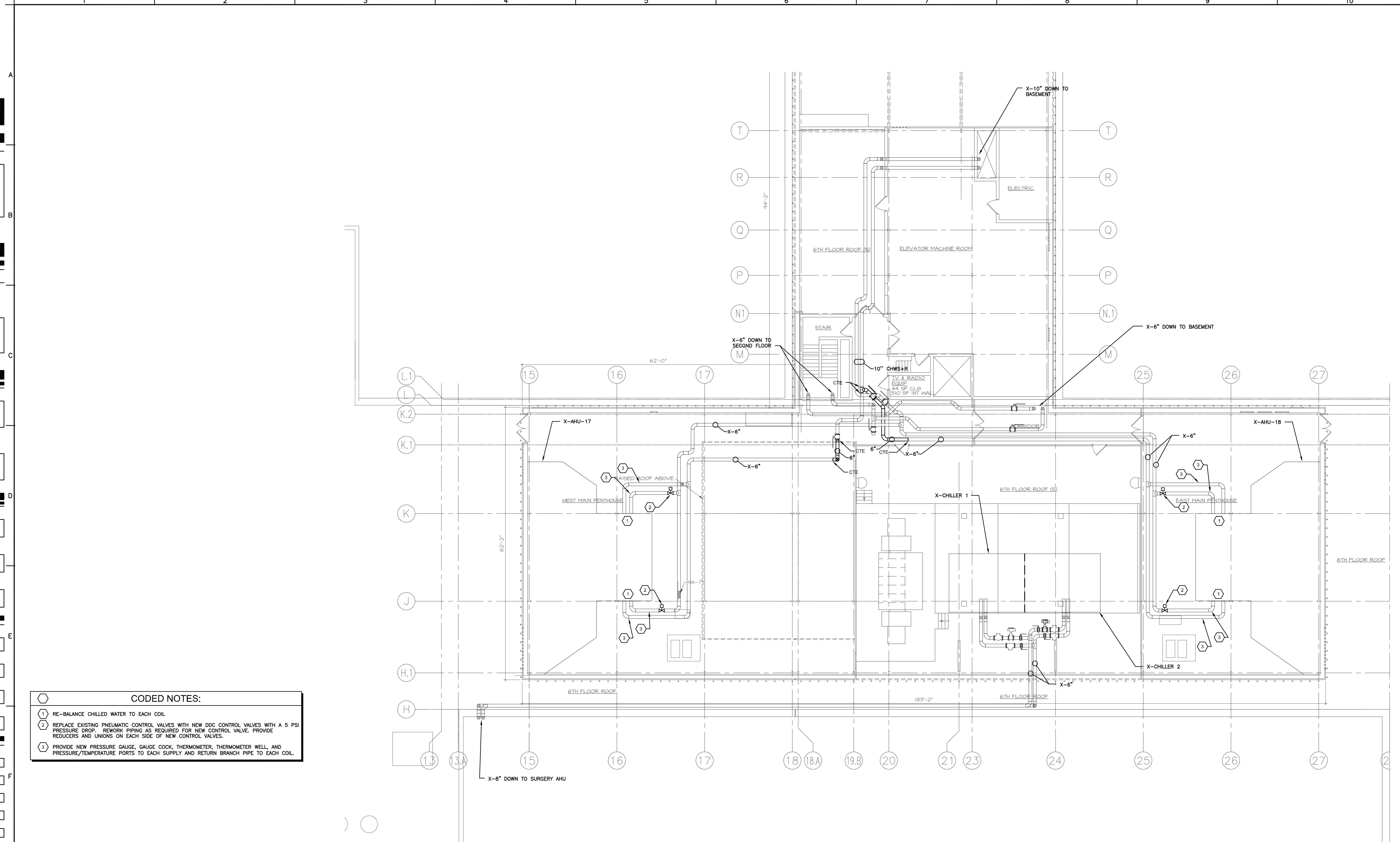
PARTIAL PENTHOUSE PIPING PLAN DEMOLITION

SCALE: 1/8" = 10'

0' 4' 8' 16' 32'

<div>Revisions:</div> <table><tr><td>FINAL CD SUBMISSION - FOR CONSTRUCTION</td><td>04-06-12</td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>	FINAL CD SUBMISSION - FOR CONSTRUCTION	04-06-12																			<div>CONSULTANTS:</div> <div><div>FREDRICK, FREDRICK & HELLER ENGINEERS, INC.</div><div>672 EAST ROYALTON ROAD BROADVIEW HTS., OHIO 44147 TEL (440) 546-9888 FAX (440) 546-9899</div></div>	<div><div>STATE OF OHIO BRIAN L. WODOWSKI E-66623 Professional Engineer 10018A</div></div>	<div>ARCHITECT:</div> <div><div>Perspectus architecture</div><div>13212 Shaker Square Suite 204 Cleveland, Ohio 44120 P. 216.752.1800 F.216.752.3833</div></div>	<div>Drawing Title</div> <div>PARTIAL PENTHOUSE PIPING PLAN DEMOLITION</div> <div>Approved: Project Director</div>	<div>Project Title</div> <div>CHILLER PLANT GENERATOR & DISTRIBUTION UPGRADES</div> <div>Location</div> <div>VAMC - WADE PARK</div> <div>Date</div> <div>04-06-2012</div> <div>Checked</div> <div>BMW</div> <div>Drawn</div> <div>DAD</div>	<div>Project Number</div> <div>541-11-108</div> <div>Building Number</div> <div>1</div> <div>Drawing Number</div> <div>3-H7</div>	<div>Office of Facilities Management</div> <div>Department of Veterans Affairs</div>
FINAL CD SUBMISSION - FOR CONSTRUCTION	04-06-12																										

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- CODED NOTES:**
- 1 RE-BALANCE CHILLED WATER TO EACH COIL.
 - 2 REPLACE EXISTING PNEUMATIC CONTROL VALVES WITH NEW DDC CONTROL VALVES WITH A 5 PSI PRESSURE DROP. REWORK PIPING AS REQUIRED FOR NEW CONTROL VALVE. PROVIDE REDUCERS AND UNIONS ON EACH SIDE OF NEW CONTROL VALVES.
 - 3 PROVIDE NEW PRESSURE GAUGE, GAUGE COCK, THERMOMETER, THERMOMETER WELL, AND PRESSURE/TEMPERATURE PORTS TO EACH SUPPLY AND RETURN BRANCH PIPE TO EACH COIL.

PARTIAL PENTHOUSE PIPING PLAN
SCALE: 1/8" = 10'
0' 4' 8' 16' 32'

<div>Revisions:<div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div></div> <div>FINAL CD SUBMISSION - FOR CONSTRUCTION</div> <div>04-06-12</div> <div>Date</div>		<div>CONSULTANTS:</div> <div><div>FREDRICK, FREDRICK & HELLER</div><div>ENGINEERS, INC.</div><div>672 EAST ROYALTON ROAD</div><div>BROADVIEW HTS., OHIO 44147</div><div>TEL: (440) 546-9088</div><div>FAX: (440) 546-9099</div></div>		<div><div>STATE OF OHIO</div><div>BRIAN WIDOWSKI</div><div>E-66625</div><div>Professional Engineer</div><div>10018A</div></div>		<div>ARCHITECT:</div> <div><div>Perspectus</div><div>architecture</div><div>13212 Shaker Square Suite 204 Cleveland, Ohio 44120</div><div>P. 216.752.1800 F.216.752.3833</div></div> <div>DESIGN AND CONSTRUCTION DOCUMENTS AS INSTRUMENTS OF SERVICE ARE GIVEN IN CONFIDENCE AND REMAIN THE PROPERTY OF PERSPECTUS ARCHITECTURE. THE USE OF THIS DESIGN AND THESE CONSTRUCTION DOCUMENTS FOR PURPOSES OTHER THAN THE SPECIFIC PROJECT NAMED HEREIN IS STRICTLY PROHIBITED WITHOUT THE EXPRESSED WRITTEN CONSENT OF PERSPECTUS ARCHITECTURE.</div>		<div>Drawing Title</div> <div>PARTIAL PENTHOUSE PIPING PLAN</div> <div>Approved: Project Director</div>		<div>Project Title</div> <div>CHILLER PLANT GENERATOR & DISTRIBUTION UPGRADES</div> <div>Location</div> <div>VAMC - WADE PARK</div> <div>Date</div> <div>04-06-2012</div> <div>Checked</div> <div>BMW</div> <div>Drawn</div> <div>DAD</div>		<div>Project Number</div> <div>541-11-108</div> <div>Building Number</div> <div>1</div> <div>Drawing Number</div> <div>3-H8</div>		<div>Office of Facilities Management</div> <div>Department of Veterans Affairs</div>	
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